

Chapter II

Wind and Current Load Prediction Procedures



2.1 BASIS OF PROCEDURES

Environmental loads induced on VLCCs (vessels in the 150,000 to 500,000 DWT range) by wind and current can be computed with the procedures described in this section. The forces and moments generated are suitable for a computer analysis of the required mooring restraint. The following non-dimensional coefficients are used throughout in the calculation of design loads:

C_x = longitudinal force coefficient

C_y = lateral force coefficient

C_{xy} = yaw moment coefficient

The subscripts *w* and *c* are used to distinguish between wind and current.

The sign convention and coordinate system adopted for this report are illustrated in Figure 1. The adopted sign convention is according to the ITTC¹ standards. This differs from the sign convention as published in the earlier 1977 OCIMF publication. The sign convention for the axis of coordinates in this publication refers to a stern-on direction of wind or current direction at 0 degrees. Curves of the force and moment coefficients as a function of wind and current angle of attack are provided in Figures 2 to 4 and Figures 5 to 14, respectively. The wind coefficients are based upon data obtained from wind tunnel tests conducted at the University of Michigan in the 1960's. The values of the current coefficients are based upon data from model tests performed at the Maritime Research Institute Netherlands (1975-1991) and for the deep water case ($W/D > 6$) the Design Manual of the United States Navy (ref. 2). The forces and moments computed will be in units of Newtons and Newton metres respectively with their point of action at the intersection of the transverse and longitudinal centre line of the tanker.

2.2 EQUATIONS FOR COMPUTING WIND LOADS

The resultant wind force and moments acting on a moored tanker are calculated using the following equations

$$F_{xw} = \frac{1}{2} C_{xw} \rho_w V_w^2 A_{xw}$$

$$F_{yw} = \frac{1}{2} C_{yw} \rho_w V_w^2 A_{yw}$$

(1)

$$M_{xw} = \frac{1}{2} C_{xw} \rho_w V_w^2 A_{xw} L_{wp}$$

Note: The equations remain basically the same as provided in the 1977 edition.

¹ ITTC: International Towing Tank Conference publication 1987.



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SJ Ball



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Prediction of Wind and Current Loads on VLCCs OCIMF Staff, 1977-01-01 *Methods for analysing wind, wave and swell data to estimate on an annual basis the number of days, and the maximum duration of periods during which port and ship operations will be impeded by these elements*, *Piers, Jetties and Related Structures Exposed to Waves* Giovanni Cuomo, Andrea Polidoro, William Allsop, 2024-08-15 *Piers Jetties and Related Structures Exposed to Waves* Second Edition delivers guidelines for engineers to analyse and optimise pier and jetty designs It is essential reading for maritime designers and consultants tasked with analysing designing and constructing piers and jetties **Reassessment of the Marine**

Salvage Posture of the United States National Research Council, Division on Engineering and Physical Sciences, Commission on Engineering and Technical Systems, Committee on Marine Salvage Issues, 1994-02-01 Prompt and effective response to time critical ship casualties and emergencies for example by refloating stranded ships can prevent marine pollution and economic disruption of ports and waterways The marine salvage industry which conducts this work has undergone significant changes in the past two decades This book evaluates these changes and assesses the adequacy of marine salvage in the United States Among the issues addressed are conditions in the salvage industry emergency response time national salvage policy workforce needs salvage techniques and the contribution of the Navy to the national salvage capability *Advances in Berthing and Mooring of Ships and Offshore Structures* E. Bratteland, 2012-12-06 Two previous NATO Advanced Study Institutes ASI on berthing and mooring of ships have been held the first in Lisboa Portugal in 1965 and the second at Wallingford England in 1973 These ASIs have contributed significantly to the understanding and development of fenders and mooring as have works by Oil Companies International Marine Forum 1978 and PIANC 1984 Developments in ship sizes and building of new specialized terminals at very exposed locations have necessitated further advances in the combined mooring and fendering technology Exploration and exploitation of the continental shelves have also brought about new and challenging problems developments and solutions Offshore activities and developments have influenced and improved knowledge about both ships and other floating structures which are berthed and or moored under various environmental conditions The scope of this ASI was to present recent advances in berthing and mooring of ships and mooring of floating offshore structures focusing on models and tools available with a view towards safety and reduction of frequencies and consequences of accidents *Mooring System Engineering for Offshore Structures* Kai-Tung Ma, Yong Luo, Chi-Tat Thomas Kwan, Yongyan Wu, 2019-06-04 The mooring system is a vital component of various floating facilities in the oil gas and renewables industries However there is a lack of comprehensive technical books dedicated to the subject *Mooring System Engineering for Offshore Structures* is the first book delivering in depth knowledge on all aspects of mooring systems from design and analysis to installation operation maintenance and integrity management The book gives beginners a solid look at the fundamentals involved during mooring designs with coverage on current standards and codes

mooring analysis and theories behind the analysis techniques Advanced engineers can stay up to date through operation integrity management and practical examples provided This book is recommended for students majoring in naval architecture marine or ocean engineering and allied disciplines in civil or mechanical engineering Engineers and researchers in the offshore industry will benefit from the knowledge presented to understand the various types of mooring systems their design analysis and operations Understand the various types of mooring systems and the theories behind mooring analysis Gain practical experience and lessons learned from worldwide case studies Combine engineering fundamentals with practical applications to solve today s offshore challenges

Handbook of Offshore Engineering (2-volume Set) Subrata Chakrabarti,2005-08-19 Each chapter is written by one or more invited world renowned experts Information provided in handy reference tables and design charts Numerous examples demonstrate how the theory outlined in the book is applied in the design of structures Tremendous strides have been made in the last decades in the advancement of offshore exploration and production of minerals This book fills the need for a practical reference work for the state of the art in offshore engineering All the basic background material and its application in offshore engineering is covered Particular emphasis is placed in the application of the theory to practical problems It includes the practical aspects of the offshore structures with handy design guides simple description of the various components of the offshore engineering and their functions The primary purpose of the book is to provide the important practical aspects of offshore engineering without going into the nitty gritty of the actual detailed design Provides all the important practical aspects of ocean engineering without going into the nitty gritty of actual design details Simple to use with handy design guides references tables and charts Numerous examples demonstrate how theory is applied in the design of structures

Ship-Shaped Offshore Installations Jeom Kee Paik,Anil Kumar Thayamballi,2007-01-15 Ship shaped offshore units are some of the more economical systems for the development of offshore oil and gas and are often preferred in marginal fields These systems are especially attractive to develop oil and gas fields in deep and ultra deep water areas and remote locations away from existing pipeline infrastructures Recently the ship shaped offshore units have been applied to near shore oil and gas terminals This 2007 text is an ideal reference on the technologies for design building and operation of ship shaped offshore units within inevitable space requirements The book includes a range of topics from the initial contracting strategy to decommissioning and the removal of the units concerned Coverage includes both fundamental theory and principles of the individual technologies This book will be useful to students who will be approaching the subject for the first time as well as designers working on the engineering for ship shaped offshore installations

Mooring Sysyems Pile Buck,2012-09-28 This book contains background information and procedural guidelines concerning the maintenance of fleet moorings and spare fleet mooring material This includes mooring installation and recovery procedures the refurbishing and overhaul of mooring material ashore and afloat inspection criteria and guidelines inventory storage criteria and the utilization of cathodic protection systems to effectively reduce the corrosion

rate of mooring material *Piers, Jetties and Related Structures Exposed to Waves* Kirsty McConnell, William Allsop, Nigel William Henry Allsop, Ian Cruickshank, 2004 Offers guidance on hydraulic design including design wave conditions prediction of scour and vessel mooring loads and methods for the prediction of wave loading including forces on the underside of jetty decks This book also provides guidance on design principles and design wave loads for exposed jetty structures

Planning and Design of Ports and Marine Terminals Hans Agerschou, 2004 Written by a collection of eminent figures in the field this new edition continues to look at the rational planning for port facilities requirements berths storage and cargo handling equipment organisations management and operations with relation to planning and design of ports and marine terminals *Marine Structural Design* Yong Bai, Wei-Liang Jin, 2015-09-18 Marine Structural Design Second Edition is a wide ranging practical guide to marine structural analysis and design describing in detail the application of modern structural engineering principles to marine and offshore structures Organized in five parts the book covers basic structural design principles strength fatigue and fracture and reliability and risk assessment providing all the knowledge needed for limit state design and re assessment of existing structures Updates to this edition include new chapters on structural health monitoring and risk based decision making arctic marine structural development and the addition of new LNG ship topics including composite materials and structures uncertainty analysis and green ship concepts Provides the structural design principles background theory and know how needed for marine and offshore structural design by analysis Covers strength fatigue and fracture reliability and risk assessment together in one resource emphasizing practical considerations and applications Updates to this edition include new chapters on structural health monitoring and risk based decision making and new content on arctic marine structural design

Criteria for movements of moored ships in harbours - a practical guide, 1995 **Handbook of Marine Craft Hydrodynamics and Motion Control** Thor I. Fossen, 2021-04-19 Handbook of MARINE CRAFT HYDRODYNAMICS AND MOTION CONTROL The latest tools for analysis and design of advanced GNC systems Handbook of Marine Craft Hydrodynamics and Motion Control is an extensive study of the latest research in hydrodynamics guidance navigation and control systems for marine craft The text establishes how the implementation of mathematical models and modern control theory can be used for simulation and verification of control systems decision support systems and situational awareness systems Coverage includes hydrodynamic models for marine craft models for wind waves and ocean currents dynamics and stability of marine craft advanced guidance principles sensor fusion and inertial navigation This important book includes the latest tools for analysis and design of advanced GNC systems and presents new material on unmanned underwater vehicles surface craft and autonomous vehicles References and examples are included to enable engineers to analyze existing projects before making their own designs as well as MATLAB scripts for hands on software development and testing Highlights of this Second Edition include Topical case studies and worked examples demonstrating how you can apply modeling and control design techniques to your own designs A Github repository

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